

### ABSTRACT OF THE DISCLOSURE

Relative movement occurs between the in-process substrate and the dropping section. While the substrate is rotated, the dropping section is relatively moved from an approximate center of the substrate toward an outer periphery thereof. While the dropping section relatively moves from the approximate center of the in-process substrate toward the outer periphery, the rotational frequency  $w$  for the substrate is decreased so that the solution film should not move due to the centrifugal force applied to a dropped solution film. Concurrently, feed rate  $v$  for the liquid from the dropping section is increased to form a solution film on the in-process substrate.